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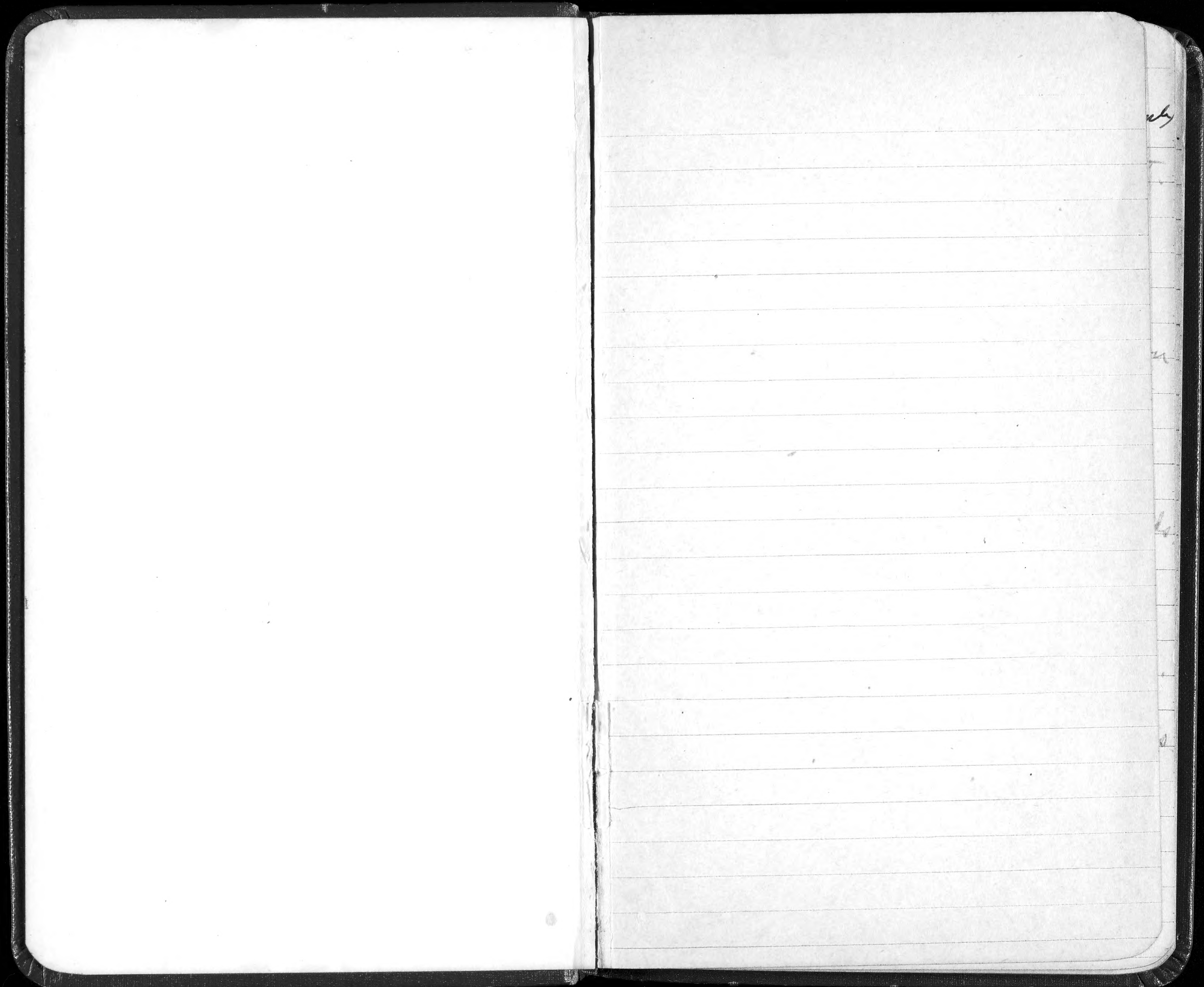
Frances E. Carnes

1657 - 31st Street, N.W.

Washington, D.C.

CARNES, FRANCES E. 1938 - 1941.
Grasses, cult. & eastern U. S., Canada

Field notes Nos. 1 - 184.



Beltsville; May 12, 1938

1 *Elymus pseudo-agropyron* (Griseb.) Trin
Agropyron

Beltsville - Exp. Plot

F.P.I. 107,717

Manchuria

erect, basal leaves short

2 *Elymus pseudo-agropyron*

Beltsville - Exp. Plot

F.P.I. 107669

Manchuria

erect

3 *Alopecurus myosuroides* Huds.

Beltsville - Exp. Plot

F.P.I. 117319

Turkey

culms spreading at base.
clumps.

4

Koeleria ^{*spheoides* (Vill.) Pers}
barystachya

Beltsville - Exp. Plot

P.I. 119654

Turkey

111, 302 = *Festuca elatior*

111, 217 } = *Calamagrostis*
111, 216 } *epigeios*
111, 215 }

5 *Poa bonariensis* (Lam) Kunth
Beltsville - Exp. Plot
F.P.I. 92340
Argentina
in large, dense, erect clumps.
no rhizomes.

June 6 *Calamagrostis epigeios* (L)
1, 1938 (with rhizomes) Roth
Beltsville, Exp. Plot.
F.P.I. # 111, 216
Manchuria.

7. *Melica altissima* L.
dehiscens
small clump about 12 in. high
Beltsville, Exp. Plot
F.P.I. # 111, 301
tall plants in row are
Festuca elatior

8 *Poa nemoralis* L. ok
no rhizomes.
Beltsville, Exp. Plot.
F.P.I. # 101, 466
no source

9 *Poa nemoralis*
plant erect
Beltsville - Exp Plot
111,320 Rumania

10 *Phalaris* ^{erect} ~~*coerulea*~~ ^{Desf} *coerulea*
Beltsville, Exp Plot
111,994 Australia

ok 11 *Phleum arenarium* ^{Desf}
119,671 Beltsville
Turkey

✓ 12 *Festuca rubra*
13706 ("stolonifera")
Beltsville
Germany

✓ 13 *Festuca rubra* L ^{ok}
Beltsville # 89,828
Spain.

14 *Festuca* ^{diminuta} ~~*rubra*~~ L.
Beltsville # 108,060
topheavy with panicles
drooping; no rhizomes
Turkistan
June 9 - reddish

15 *Festuca* " ^{ovinal} ~~*communis*~~ ^{stall}
dense tuft, erect
Beltsville # 114,247

India
June 9, 1938 - small & bluish
plant glaucous.
obviously 2 different things under

16 *Festuca* ~~*communis*~~
dense tuft basal foliage spreading
with rhizomes
Beltsville # 114,249

India
June 9, 1938
F. rubra var *laevigata*
ad int. Hart & Koch

17 *Festuca ovina* L.
erect; Beltsville
F.P.I # 115,357 mixture?
Leningrad glaucous

18 *Festuca rubra* L.
erect; Beltsville
F.P.I # 89828
rhizomes wanting
dense tuft.
see #13 - same?

19 "Festuca" sp.
drooping heads
Beltsville #114,245

India
= *Elymus pycnicus* L.
~~*dahuricus* Turcz~~

June 9, 1938

20 *Elymus pseudo-agropyron* Trin.
erect, basal leaves short
same plot as #1 rhizomes
Beltsville - #107,717
blades glaucous Manchuria

Calamagrostis epigeios ²¹ Roth
same plot as #6
erect, vigorous grower
F.P.IV 111,215
Manchuria

Poa compressa L. ²²
#109,560 Beltsville
Tosya, Turkey
erect, panicles light-green -
slightly nodding - *Agrostis*
mixed in - mostly *Agrostis*.

"*Poa nemoralis*" ²³
#21,818 is *Poa compressa* L.
Beltsville, no source given
"*P. nemoralis*" L. #110,581 one *nemoralis*
last in the row - but
Poa pratensis + *Agrostis* sp. ²⁴

25

Poa nemoralis L#111,319 ' tuft, erect
red base - Beltsville

26

Bromus macrostachys ^{Durf}

#111,275 no source

⊙ *Bromus commutatus*
mixed in.

27

Bromus erectus Huds#111,279 no source
dense tufts, erect,
slightly nodding at summit
no rhizomes. Beltsville.

28

Bromus ^{erectus Huds} ~~variegatus~~ No#115,341 Leningrad
overmature - *B. macrostachys*
mixed in

"

oxypodon Schrenk*Bromus macrostachys*

29

#114,221 India

⊙ panicles nodding
B. japonicus Thunb mixed in

H

Hordeum bulbosum L.

#78,781

Russia

30

culms erect, spikes slightly
nodding*Bromus japonicus* Thunb depauperate*Bromus* sp 115,341

31

Leningrad

erect, panicles nodding

approaching var *aristatus* Schum.

32

Bromus merriis Luyk

115,344 Leningrad

Beltsville,

blades broad + drooping
has rhizomes

#95,581 Canada =
Poa pratensis

#111,319 no source =
first clump = *Poa pratensis*
2nd clump = *Poa palustris*
3rd + 4th alike = #25 in
this book.

#114,222 - "*Bromus ramosus*"
India - only
Phleum pratense in row

#114,220 *Bromus*
gracillimus - India
no *Bromus* in row
one plant of *Poa pratensis*

#78,781 *Hordeum bulbosum* L.

#80,815 just one spike
- not taken

ok
Phleum subulatum (Savi) ³³
#119,675 Turkey
Beltsville

Festuca duriviscula L. 34
#108,060 Turkistan,
Fruze foliage rough
reddish, erect, panicles
nodding, dense tufts of #14

see #44
Phalaris paradoxa L. 35
#111,313 Roumania
tall plants without deformed spks +
short plants with deformed spks in same clump
(*P. coerulescens* det V. with bulbous mis-
in see 44)

Avena bromoides Gouan. 36

#89,813 no source
erect, panicle slightly
nodding

37 "*Arrhenatherum elatius* (L.) Mert + Koch
Arrhenatherum erianthum
F.C. # 13748 California

ok 38 *Brachypodium pinnatum* (L.) Beauv.
F.P.I. # 11,267 no source
erect, panicle erect, stiff

ok 39 *Zoysia matrella* (L.) Merr.
F.C. # 13,521 no source

= *Z. matrella* (L.) Merr.
40 *Zoysia pruriens* Willd.
F.P.I. # 88,776
no source

Z. matrella (L.) Merr.
Zoysia japonica Steud. 41
F.P.I. # 89,123
very little in row

ok *Brachypodium mucronatum* Willk. 42
very dense growth
foliage drooping
89,817 Beltsville

? *Brachypodium pinnatum* Beauv. 43
106,020 panicles nodding
no source, dense tufts
Beltsville foliage drooping

Phalaris caerulea Desf. 44
see no 35
" *Phalaris paradoxa* "
111,313
mixed with - has bulbs

45 *Briza humilis* Sieb.
speciosa

D tufted, glaucous
PEI # 119,627 Turkey

46 *Agropyron elongatum*
head erect, very glaucous
98,526 U.S.S.R.
no rhizomes

47 *Beckmannia cruciformis*
erect 4
104,673

48 *Agrostis scabriglumis*
lively green, slender rhizomes
89,806

Agrostis Castellana var. 49
rhizomes copious *mutica*
89,804 Spain

Agrostis "palestina" 5th plant, row)
alba (near end of 50
decumbent at base, rhizomes
111,252

Agrostis alba L. 51
first plant in row
111,252
abundant rhizomes

Agrostis alba 52
more of foliage for few
flowering culms, slender stolons
115,320

Agrostis interrupta L. 53
~~*spica-vent*~~
O # 119,610
Turkey

Agrostis stolonifera L. 54
sp.
111,253 no source
dense, with foliage
slender stolon

Poa nemoralis L. 55
109,560 A short rhizomes
slightly bent at base
Tosya, Turkey

56
June 24, 1938 *Poa compressa* L.
spreading at base
light gray soil
5 mi. south of Ithaca N.Y.

57

Festuca elatior L.

June 25 erect, panicles nodding
Hood side near Montezuma

58

Calamagrostis canadensis

(Michx.) Beauv.

erect. edge of ditch
low ground - drained marsh
2 mi. W of Montezuma N.Y.

Glyceria borealis (Rash) Batchelder

59

growing in sluggish stream
panicle branches erect, narrow
2 mi east of Belleville, Ont.
June 26

60

Glyceria grandis S. Wats.

panicles open, brownish. Sluggish
stream. 2 mi east of Belleville,
Ont.

June 29

Lygopsis racemosa (J.E. Smith)

61

Richer

edge of Kings Mt., Que.
deep woods. along path
erect.
18 mi. N. of Ottawa Canada

Danthonia spicata (L.) Beauv.

62

near base of Kings Mt. woods along
path. erect

compressa L.

63

Cf. #62. Among rocks.

of #63 *Danthonia spicata* (L.) Beauv.

64

65 *Trisetum spicatum* (L.) Rich.
Open slope. King's Mt.

66 *Agropyron pauciflorum* (Schwein.) Hitchc.
Open slope. King's Mt.

67 *Trisetum spicatum* (L.) Rich.
Dense tuft, erect. Open slope.
King's Mt.

68 *Poa compressa* L.
Along rocky path. King's Mt.

Danthonia spicata (L.) Beauv. 69
Small tuft erect. Rocky path.
King's Mt.

Deschampsia flexuosa (L.) Trin. 70
Open nodding panicle. Very
fatty. At base of tree along wooded
path. King's Mt.

Panicum linearifolium Scribn. 71
Open woods along slope. King's
Mt., Quebec

Brachelytrium erectum (Schreb.) Beauv. 72
Top of King's Mt. fairly dense woods.
Very rich soil.

mosses ,

72a

73a

73 *Sphenopholis intermedia*
(Rydb.) Rydb.
Dense, damp woods. Top of
King's Mt.

74 *Milium effusum* L.
Dense soft, light green. Thick
woods. Top of King's Mt.

75 *Poa laevigata* Hitchc.
edge of wood, top of
King's Mountain

76 *Phleum pratense* L.
Rocky path, fairly open. King's
Mt.

Glyceria striata (Lam.) Hitchc. 77
Near shore of lake. 1/2 way up
King's Mt.

Poa compressa L. 78
Open upland pasture. 3 mi
west of Wakefield, Que.

Glyceria striata (Lam.) Hitchc. 79
Stream bank 3 mi west of
Wakefield, Que.

Glyceria grandis S. Wats. 80
Wet ditch along road. 6 mi west
of Wakefield, Que.

81 *Calamagrostis canadensis*
Boggy ground along
roadside, 9 mi west of Wakefield
Que

82 *Glyceria canadensis* (Michx.) Trin.
Boggy ground lake shore, 12 mi
west of Wakefield, Que.

83 *Festuca obtusa* Spreng.
large, open woods -
rich soil. decumbent at base
panicle drooping.
Brookfield, Vt. July 4th

84 ~~July 6~~
Bromus tectorum L.
Provincetown, Mass. along
roadside, fairly common

(discarded)

85 *Panicum depauperatum* Muhl.
Large clump along roadside
Provincetown, Mass.

86 *Puccinellia maritima* (Huds.) Parl.
Salt marsh near road
Provincetown, Mass.
very abundant. Slightly spreading
at base. Panicles opening when
mature

87 *Puccinellia maritima* (Huds.) Parl.
habitat as in #86.

88 ~~July 7~~
Glyceria acutiflora Torr.
In water at edge of lake. Comm.
Coll. New London, Conn.

89 *Glyceria pallida* (Torr.)
as for #88 Trin.

90 *Holcus lanatus* L.
Edge of pond at road N.S. #,
East Lyme, Conn. Not very
abundant

91 *Festuca rubra* L.
Panicle drooping. Habitat
as in #90.

92 *Festuca elatior* L.
Same as #91

93 *Deschampsia caespitosa* (L.) Beauv.
Panicle open, spreading, tufted.
Habitat as in #90
[discarded]

Panicum clandestinum L. 94
Habitat as in #90

Spartina patens (Ait.) Muhl. 95
Tidal flats, Blue Hall
River, near Old Lyme, Conn.

Aug. 24
Panicum scoparium Lam. 96
along Penn. R. tracks
just off Kenilworth Ave.
(about 500 yds. below
underpass). D.C.

Andropogon ellipticus Chapm. 97
along Penn. R.R. tracks
just off Pennsylvania Ave.
D.C.

Panicum virgatum L. 98
same habitat as #97

Paspalum setaceum Michx. 99
same as #97

Digitaria sanguinalis (L.) Scop. 100
same as #97
approaching var. *ciliata*

Aug. 25

101 *Digitaria ischaemum*
roadside near Beltsville,
Md.

Aug. 25

102 *Dryopsis acuminata*
F.P.I. # 114,265
Beltsville

103 *Spodiopogon sibiricus* Trin
F.P.I. # 90,274
Beltsville

104 *Cymbopogon refractus*
(R.Br.) A. Camus
F.P.I. # 183,781
Beltsville

dense clump, culms leaning,
inflorescence spicy -
aromatic to taste

Cymbopogon refractus 105
F.P.I. # 83,781
Beltsville

Astrella lappacea 106
(Lindl.) Domin.
P.E.I. # 124,891
Beltsville

Digitaria priantha Steud. 107
P.E.I. # 125,112
Beltsville

Stachys 108
Natural Plant
Beltsville

109 *Digitaria*
naturalized
Bank along stream

110 *Andropogon*
Norris Farm, 8 miles from
ca 12 mi from St. Louis, Mo.
Prosp. by the large stream &
roadside

111 *Poa* June 10, 1941
Forest Arlington Farm
seed from brood, a few
as a sample for

112 *Poa*
Poa as 111

Poa 113
as 111

June 26, 1941
Panicum laeve 114
growing on road
just north of Baltimore

Helianthus 115
growing on road
just north of Baltimore

Panicum 116
waste place on road just north
about 10 mi. north of Baltimore
Route #1

Silvest 7106

117 *Paricum aschii*
same as 116

118 *Paricum meridionale*
same

119 *Paricum dichotomum*
same

120 just above Oxford Pa. ↓

121

122

123

124

125

Panicum

126

near Intervale, Del.

Panicum

127

near Wilmington, Del.

Paspalum

128

road side south of
Lancaster

Silene # 7107

129

Panicum

same as 128

130

Panicum boreale?edge of woods west of
camp on route 40 about
47 mi from Manzanito

131

Panicum

same

132

Panicum

same

*Panicum*roadside - sandy gravel
same

133

Panicum

same

134

Panicum seeds

same as 133

135

Lysichiton

same

136

137 *Panicum*

same

138 *Tridax flava*

Route 40 - road to

Maunabauhin

139 *Panicum*

capricorn group

same

140 *Panicum* *peruvianum*

same

Panicum *peruvianum* 141

Panicum 142

Panicum *capricorn* 143

same

Aug 27. *Colombian* *capricorn* group 144

panicum

along road in New Jersey

about 5 mi. south of Trenton

Aug.

Panicum longistylum 7 145

same
(color light)
Silene # 7/18

Panicum 146

Panicum 147

Panicum 148

149

Panicum

150

Panicum

151

Panicum

152

Panicum

Panicum

153

Panicum

154

Panicum

Staffordville

155

Panicum

same

156

157 *Panicum*

158 *Panicum*

159 *Panicum*
a little south of *Staphylea*

160 *Panicum*

Panicum

161

Panicum

162

South of *Staphylea*
along edge

(leaves have a soft *herbaceous* feel)

Panicum

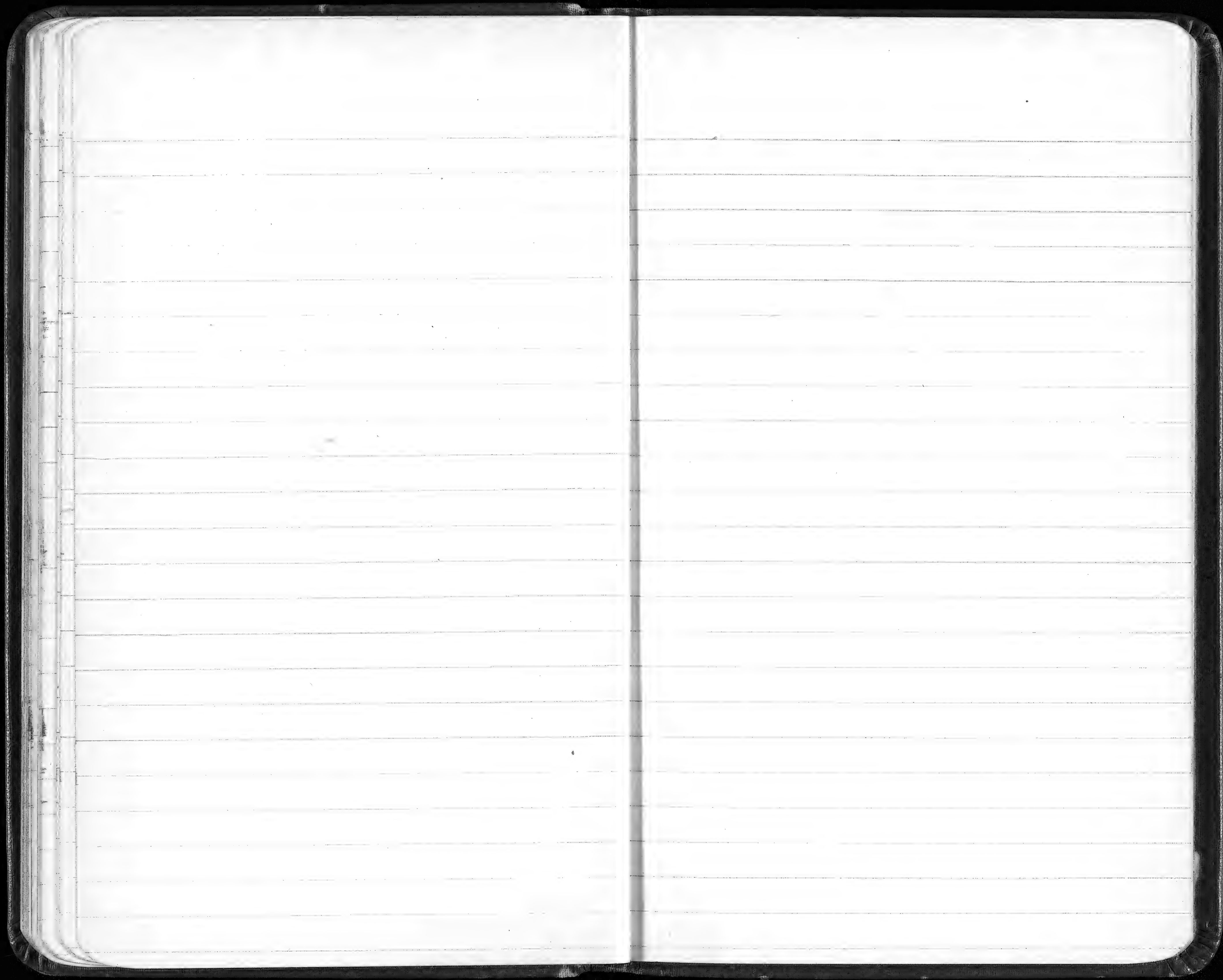
163

decumbent spreading
mat

Silene # 7123

Panicum

164



165 *Panicum*

166 *Panicum matsumi*
along ~~sand~~ road on
little further north
in edge of woods in partial
shade and near a damp ditch.

167 *Panicum*
same

168 *Bromus japonicus*
Cape May 1911
partial shade same road.

Panicum

169

Panicum

170

Panicum

171

Panicum

172

173 *Panicum*

174 *Panicum*

175 Composite

176 *Panicum*

Roadside, damp
between Mays Landing &
Egg Harbor, N.J.

Panicum

177

Panicum

178

Red-roofed plant

179

Lycopodium

180

181 *Panicum dentat*
Egg Harbor

182 *Panicum*
NE
5 mi. from Egg Harbor

183 *Panicum*

184 *Panicum*

Panicum

185

186

187

188

189

190

191

192

193

194

195

196

445

449

446

450

447

451

448

452

445

446

447

448

1798 1/2

